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leſſer Lion and Cancer, as far as the ſmaller Dog.

h ' ''
At 8 49 36. This Arch quite diſappear'd : But
at the ſame time, I ſaw another broad-
er and brighter Arch under *Caffio-
pea*, ſeven or eight Degrees high.

In the Obſervations of *October* 4th, and in the
laſt, I am certain as to the Time of the Clock : So
that if it has happen'd that others have obſerved the
ſame *Phænomena*, the Longitudes of Places may
be determined by them with greater Exactneſs than
by the Satellites of *Jupiter*, which I take to be the
principal Uſe that may be made of theſe Obſervations,
eſpecially in making Maps of the Northern Coun-
tries, where theſe Lights more frequently occur.

VIII. *A Letter from Dr. Robert James,
of Lichfield, to Sir Hans Sloane,
Bart. Pr. R. S. containing ſome Expe-
riments made upon Mad Dogs with
Mercury.*

Lichfield, June 3, 1735.

S I R,

I N purſuance of your Commands, I here give you
an Account of ſome Experiments that have
been made upon *Mad Dogs* with *Mercury*, which
I apprehend I have ſome Reason to believe is the
moſt

most effectual Preservative against, and perhaps even a Cure for the *Hydrophobia*.

About *Michaelmas*, 1731, I waited on Mr *Floyer*, of *Hints*, a Gentleman who is very curious in Fox-Hounds. He complain'd that He was afraid of a Madness amongst his Hounds; for that Morning one had run mad in the Kennel, and he was apprehensive that most of the rest were bit by him: I took this Opportunity of telling him that I had long believ'd that *Mercury* would, if try'd, prove the best Remedy against this Infection; and that if the Idea I had form'd of this Poison was just, I was pretty sure the Medicine would answer, notwithstanding the Difficulty there is of determining the Effects of a Medicine *à priori*; and that it was, at least, worth while to try. Mr. *Floyer* neglected this Advice till the *February* following. Mean time he try'd the Medicine in *Bates*, commonly known by the Name of the Pewter-Medicine; as also every thing else which was recommended to him by other Sportsmen, but to no Purpose; for some of his Hounds run mad almost every Day after Hunting. Upon this he took his Hounds to the Sea, and had every one of them dipt in the Salt-Water; and at his Return, brought his Pack to another Gentleman's Kennel, six Miles distant from his own. But, notwithstanding this Precaution, he lost six or seven Couple of his Dogs in a Fortnights Time. About this Time, which was in *February*, I waited on him at his new Habitation, and found him in that Distress not unusual with Sportsmen upon these Occasions. I ask'd him if he had try'd the Experiment I recommended. He said he had

not, but that two of his Hounds were then mad, and he would that Night do it. He shewed me the Dogs, and they were both as far gone as I ever have seen any. They refus'd Food of all Sorts, particularly Fluids, flaver'd much, and had all the Symptoms of a *Hydrophobia* to a great Degree. He sent immediately to *Lichfield* for all the *Turpeth Mineral* he could get, and that Night gave twelve Grains a-piece to the two Dogs, which vomited and purged them gently. Twenty-four Hours after this he gave to each twenty-four Grains, and after the same Interval he gave forty-eight more to each. The Dogs salivated considerably, and soon after lap'd warm Milk. At the End of twenty-four Hours more he repeated to one Dog twenty-four Grains more, and omitted it to the other. The Dog that took this last Dose, lay upon the Ground salivated extreamly, was in great Agonies, and had all the Symptoms of a Salivation rais'd too quick ; but got through it, and is at this Time alive. The other relapsed and died.

To all the rest of the Pack he gave seven Grains of the *Turpeth* for the first Dose, the second twelve, at twenty-four Hours distance, which was repeated every other Day for some little Time. The Method was repeated at the two, or three succeeding Fulls and Changes of the Moon. From this Time he lost not another Hound ; and though several have since been bit by strange Dogs, the *Turpeth* has always prevented any ill Consequences.

I and my Friends have try'd the same Thing since upon a Multitude of Dogs, and it has never failed in any one Instance, though Dogs bit at the same
Time,

Time, and by the same Dogs, have run mad after most other Methods had been try'd.

As to the Experiments made upon Mankind, I have had Opportunities of making but three.

The first was about two Years and a half ago, upon a Girl about fourteen Years old. The Calf of her Leg was so torn by a Mad Dog, that the Surgeon was obliged to use Means to prevent a Mortification from the Bite. She was vomited by the *Turpeth*. Three Days before the next Change of the Moon, the Vomit was repeated, and again the very Day of its changing. The same Method was pursued the next Full Moon. The Girl is very well.

The second was a Boy of about ten Years of Age. He had Four Holes in one of his Legs, made by a Mad Dog in *November* last. The *Turpeth* was given as above, and the Wounds dressed with Digestives, and he continues well. These two liv'd near *Burton upon Trent*, and Mr. *Towndrow*, of that Place, was Apothecary.

The third Case was that of a young Man near *Tamworth*, of about eighteen. The Bite was upon the Hand. A great Number of Dogs were bit at the same Time, in the Town where he liv'd. About six Days after the Mischief was done, several Dogs that had been wounded ran mad, upon which he applied himself to Mr. *Wilson*, Apothecary in *Tamworth*, to whom I had communicated the Success of the *Turpeth* in this Case. The young Man was, at this Time, very melancholly and dejected, had Tremors, and slept very little for some Nights before, though he was not apprehensive that the Dog
which

which bit him was mad. He had a dry Scab upon his Hand: He was, upon applying to Mr. *Wilson*, vomited with *Vin. Benedict.* ʒij.

The next Thing he took was made according to the following Prescription.

Rx Turpeth. Min. gr. xij. Lap. Contrayerv. ʒi. Ther. Androm. q. s. M. F. Bol. N° 3, sumat unum singulis noctibus hora decubitūs superbibendo Julap. seq. Cochl. iv. Rx Aq. Rut. ʒvj. Theriac. ʒij. Syr. Pæon. c. ʒiſs Tinct. Castor ʒij M. F. Julap.

Upon taking these he sweat very much, and had two loose Stools every Day after them: His Tremors went off, and slept better. After this he went into the Cold-Bath, and continues perfectly well.

But what is remarkable in this Case is, that the Wound ran a thick digested Matter after this Method, and threw off the Scab like an *Escar*; after which it healed of itself.

I will not presume to philosophize upon these Cases, when I am writing to one who is so much better capable of doing it than I can pretend to be. Much less shall I pretend to determine whether *Mercury* has these Effects from its specifick Properties, which enables it to prevent or dissolve those inflammatory Concretions which cause the *Hydrophobia*, or from the Evacuations it causes. Instead of discussing this Point, give me leave to make an Observation or two upon the Antiquity of this Disease, which I the rather choose to do, because *Cælius Aurelianus*, in his Account of it, does not seem to build so much upon the Authority of *Homer* as, in my humble Opinion, he might have done. Indeed he quotes a Passage out of the eighth *Iliad*,

Iliad, where *Tencher* calls *Heſtor* *μὲν λυσοπῆρας*, but does not ſeem to think this ſufficient to prove that *Homer* was acquainted with this Madneſs. But he omits two more Paſſages in the ſame Author, which, joined with this, amount to a Demonſtration that *Homer* was by no means ignorant of it. The firſt is in the ninth *Iliad*, where *Ulyſſes* is upon his Embaſſy to *Achilles*. He deſcribes to the laſt mentioned Hero, the Diſtreſs the *Grecian Army* was in through his Abſence; and when he has painted *Heſtor* as terrible as he can, he compares his Fury to the Rage of a Mad Dog. *Iliad* Lib. ix. l. 237.

————— Ἐκταρ δὲ μὲγα δειεῖ βλεμεαίνων
Μαίνεται εκπάγλως, πῶσιν ὁ Διὶ, ἐδὲ τι τίει.
Ἄριεας ἐδὲ Θεὸς κρατερὴ δὲ ἐ λύσσα δέδυκεν.

————— *Heſtor verò valde trucibus oculis ad-
ſpiciens
Furit terribiliter, fretus Jove: nec quicquam
honorat
Viros neque Deos; ingens autem ipſum rabies
invaſit.*

If *Homer* had deſign'd to deſcribe a Mad Dog as a Phyſician, he could not have expreſs'd his Looks by a more proper Word than βλεμεαίνων. It muſt alſo be conſider'd, that this Diſcourſe is directed to *Achilles*, who, having ſtudied Phyſick under *Chiron*, was conſequently more capable of receiving an Idea of the Miſchief *Heſtor* did to his Country-men by this Metaphor.

In the thirteenth *Iliad*, *Heſtor* is again call'd *Λυσοπῆρας*, by *Neptune*.

It muſt be obſerv'd that λύσσα, λυσοπῆρας, and λυσοπῆρας, can properly, and in their natural Signifi-
cation,

cation, be applied to no other Madness than that which is peculiar to a Dog, though metaphorically it may, as in the Instances I have given, as also in *Sophocles* and *Euripides*. The Word λύσσι or λύτλα is used to signify the Madness of Dogs by *Aristotle*, *Galen*, and *Dioscorides*. And Λυσσάειν is used by the last mentioned Author to signify a Man bit by a Mad Dog. Λύσσω is used by *Aretæus* in this Sense, and Λύττωσις by *Plutarch*, to express the same Thing.

What I would infer from this is, that *Homer* was certainly acquainted with the Madness of Dogs; and if Dogs in his Days ran mad, 'tis probable they would bite Men, and if so, to be sure, an *Hydrophobia* would be the Consequence; notwithstanding that, *Plutarch* will have it that it was first taken Notice of in the Days of *Asclepiades*, who was famous for his Practice in *Rome* before the Death of *Mithridates*.

Another strong Evidence of its Antiquity is that Instinct which directs every Dog to avoid him that is mad, upon smelling, seeing, or even hearing him. If this is not Instinct, it is Reason; and that in a higher Degree than we ourselves can pretend to. Now Instinct must be coeval with the Creation, or at least the Fall; and therefore Madness must not be much younger.

I heartily ask Pardon for taking up so much of your Time from Business of much greater Import; and I beg Leave to subscribe myself,

S I R,

Your most obedient humble Servant,

ROBERT JAMES.